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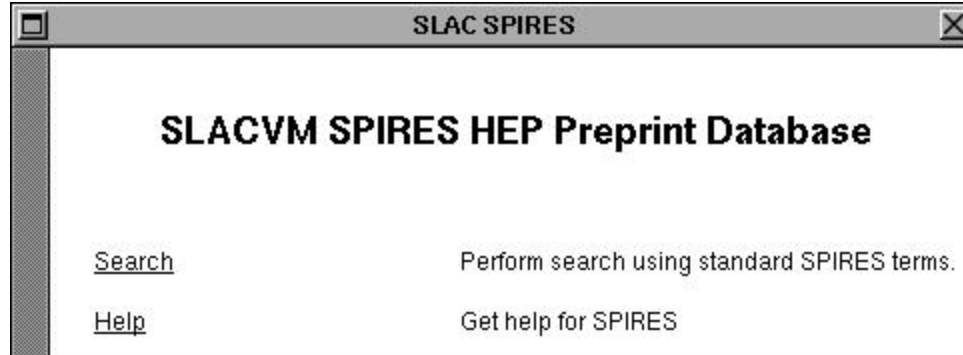
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Astrophysics independent bounds on the annual modulation of dark matter signals.

Juan Herrero-Garcia, Thomas Schwetz, Jure Zupan.

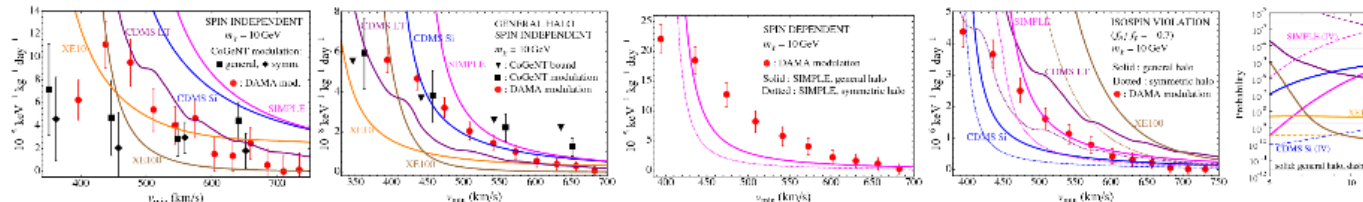
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Abstract: We show how constraints on the time integrated event rate from a given dark matter (DM) direct detection experiment can be used to set a stringent constraint on the amplitude of the annual modulation signal in another experiment. The method requires only very mild assumptions about the properties of the local DM distribution: that it is temporally stable on the scale of months and spatially homogeneous on the ecliptic. We apply the method to the annual modulation signal in DAMA/LIBRA, which we compare to the bounds derived from the constraints on the time-averaged rates from XENON10, XENON100, CDMS and SIMPLE. Assuming a DM mass of 10 GeV, we show that a DM interpretation of the DAMA/LIBRA signal is excluded at 6.3sigma (4.6sigma) for isospin conserving (violating) spin-independent interactions, and at 4.9sigma for spin-dependent interactions on protons.

Keyword(s): [INSPIRE: flux: time dependence](#) | [dark matter: mass](#) | [isospin: conservation law](#) | [spin: dependence](#)

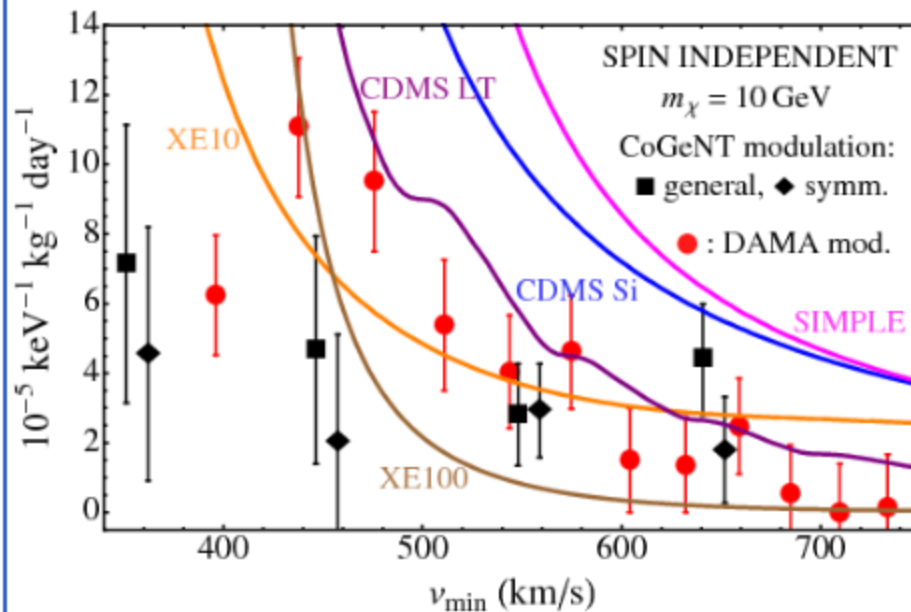
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Upper bounds on $\tilde{\eta}$ at 3σ from XENON100, XENON10, CDMS LT, CDMS Si, and SIMPLE. The modulation amplitude \tilde{A}_η is shown for DAMA (for $q_{Na} = 0.3$) and CoGeNT for both free phase fit (general) and fixing the phase to June 2nd (symmetric). We assume a DM mass of 10-GeV and SI interactions.



Integrated modulation signals

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